L Number		Search Text	DB	Time stamp
1	. 2	6707511.pn.	USPAT;	.2004/06/01 07:3
			US-PGPUB;	
			EPO; JPO;	
	1.		DERWENT;	
•	*		IBM_TDB	
2	.11	("5724107" "5771082" "5831284" "5966190"	USPAT	2004/06/01 07:2
		"6034747" "6124971" "6362507" "6376270"		200 1,00,01 07.2
		"6404473" "6424012" "6433851").PN.		
3 . '	20597	Ig.as. and kim.in.	USPAT;	2004/06/01 07:3
		13172	US-PGPUB;	2004/00/01 07.3
,	1.		EPO; JPO;	
	. *		DERWENT;	1 .
			IBM_TDB	
	35	(lg.as. and kim.in.) and (349/38 or 349/39)	USPAT;	2004/06/01 07-2
		(19.03. dila kiiti.iii.) dila (343/36 01 343/33)		2004/06/01 07:3
]		US-PGPUB;]
		*	EPO; JPO;	
			DERWENT;	-
	1256	240/142	IBM_TDB	2004/00/01 == =
	1256	349/143	USPAT;	2004/06/01 07:2
			US-PGPUB;	
•			EPO; JPO;	
		*	DERWENT;	
			IBM_TDB	
	395	((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/09 13:5
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	
		near5 electrode) and switch\$4 and (control near4	EPO; JPO;	
*		electrode)	DERWENT;	
		*	IBM_TDB	
1	110	(((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/07 14:0
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	
		near5 electrode) and switch\$4 and (control near4	EPO; JPO;	
		electrode)) and gap and potential and (insulat\$4)	DERWENT;	
			IBM_TDB	
	29	((((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/09 08:2
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	
	.	near5 electrode) and switch\$4 and (control near4	EPO; JPO;	
٠.		electrode)) and gap and potential and (insulat\$4))	DERWENT;	
	.* •	and (insulat\$4 near6 organic)	IBM_TDB	, , ,
	29	((((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 09:4
	·	(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	2003/07/10 09.4
	[near5 electrode) and switch\$4 and (control near4	EPO; JPO;	; ·
		electrode)) and gap and potential and (insulat\$4))	DERWENT;	
•		and (insulat\$4 near6 organic)	IBM_TDB	•
•	7	(((((liquid near3 crystal near3 display) or lcd) and		2002/07/00 42 5
•	[(gate near3 line) and (data near3 line) and (pixel	USPAT;	2003/07/09 13:5
• 1		near5 electrode) and switch\$4 and (control near4	US-PGPUB;	
		electrode)) and gap and notabile and (inculated))	EPO; JPO;	•
		electrode)) and gap and potential and (insulat\$4))	DERWENT;	
		and (insulat\$4 near6 organic)) and (metal or ito)	IBM_TDB	
	10	and (reflect\$4 near4 type)		
	49	(((((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/09 14:3
		(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	
		and (pixel near5 electrode) and switch\$4 and	EPO; JPO;	
:		(control near4 electrode)) and gap and (potential	DERWENT;	
	.	or ((electric near3 field) or e-field)) and	IBM_TDB	:
		(insulat\$4)) and (insulat\$4 near6 organic)) and	-	:
		(metal or ito) and (reflect\$4 near4 type)		

-		142	((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 07:52
<i>.</i> .			(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	
			and (pixel near5 electrode) and switch\$4 and	EPO; JPO;	·
		:	((contact or control) near4 electrode) and gap and	DERWENT;	•
			(potential or ((electric near3 field) or e-field)) and	IBM_TDB	
			(insulat\$4 near6 organic) and (metal or ito) and	. 15.1_155	,
1	. ,		(reflect\$4 near4 type)	USPAT;	2003/07/10 07:52
-		147	((liquid near3 crystal near3 display) or lcd) and		2003/07/10 07:32
1			(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	. '
			and (pixel near5 electrode) and (switch\$4 or tft)	EPO; JPO;	*
			and ((contact or control) near4 electrode) and gap	DERWENT;	
		1	and (potential or ((electric near3 field) or e-field))	IBM_TDB	
	٠.		and (insulat\$4 near6 organic) and (metal or ito)		· ·
			and (reflect\$4 near4 type)		
1.5		1	(((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 08:39
			(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	*
			and (pixel near5 electrode) and (switch\$4 or tft)	EPO; JPO;	,
			and ((contact or control) near4 electrode) and gap	DERWENT;	
ļ.			and (potential or ((electric near3 field) or e-field))	IBM_TDB	
1.			and (insulat\$4 near6 organic) and (metal or ito)		
				- 0	
1		٠.	and (reflect\$4 near4 type)) and (((contact or	· .:	
			control) near4 electrode) near8 (cover\$4 or	·	
1 .	,		overlap\$4) near6 gap same (potential or ((electric		
		*	near3 field) or e-field)))		2002/07/40 07 55
-		. 0	20020118331.URPN.	USPAT	2003/07/10 07:55
- '		5	(((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 10:58
,	•		(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	
	1		and (pixel near5 electrode) and (switch\$4 or tft)	EPO; JPO;	(3)
	1.1 1 No. 1	**	and ((contact or control) near4 electrode) and gap	DERWENT;	
	٠.		and (potential or ((electric near3 field) or e-field))	IBM_TDB .	
			and (insulat\$4 near6 organic) and (metal or ito)	•	
			and (reflect\$4 near4 type)) and (prevent\$4 near8	•	
. '			(potential or ((electric near3 field) or e-field))		
	1.1	•	near4 (leak\$4 or loss or dissipat\$4))		
·_ ·		15-		USPAT;	2003/07/10 08:37
		*	(gate near3 line) and ((data or source) near3 line)	US-PGPUB;	. *
. 0	7.		and (pixel near5 electrode) and (switch\$4 or tft)	EPO; JPO;	
			and ((contact or control) near4 electrode) and gap	DERWENT;	
			and (potential or ((electric near3 field) or e-field))	IBM_TDB	
1			and (insulat\$4 near6 organic) and (metal or ito)		
1		-	and (reflect\$4 near4 type)) and ((potential or	. ,	
			((electric near3 field) or e-field)) near4 (leak\$4 or		
.			loss or dissipat\$4))	·	
		62618	semiconductor.as.	USPAT;	2003/07/10 08:37
		02018	Scimeonductorias.	US-PGPUB;	
				EPO; JPO;	
	1	* ,		DERWENT;	. *
	٠	'			.
-	,		Cond (many make 4 is a set of fact and the last 1/ also state	IBM_TDB	2003/07/10 08:39
1.		2087	6and (prevent\$4 near8 (potential or ((electric	USPAT;	2002/0//10 08:39
.			near3 field) or e-field)) near4 (leak\$4 or loss or.	US-PGPUB;	
		1.	dissipat\$4))	EPO; JPO;	
		'		DERWENT;	
				IBM_TDB	
		0	semiconductor.as. and (((contact or control) near4	USPAT;	2003/07/10 08:59
			electrode) near8 (cover\$4 or overlap\$4) near6 gap	US-PGPUB;	*
			same (potential or ((electric near3 field) or	EPO; JPO;	
			e-field)))	DERWENT;	
	•			IBM_TDB	
-		20	((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 09:51
1	٠.	20	(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	
[.		1	near5 electrode) and switch\$4 and (control near4	EPO; JPO;	
			electrode) and gap and potential and (insulat\$4	DERWENT;	
			near6 organic) and 349/\$6	IBM_TDB	
L		J	incure organic) and 349/\$0	1 1011_100	I

•				•
-	61	((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 10:55
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	01
,		near5 electrode) and switch\$4 and ((control or	EPO; JPO;	
1 .		contact or circuit) near4 electrode) and gap and	DERWENT;	· .
•		potential and (insulat\$4 near6 organic) and 349/\$6	IBM TDB	·
1 -	0	(((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 10:06
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	
•		near5 electrode) and switch\$4 and ((control or	EPO; JPO;	
		contact or circuit) near4 electrode) and gap and	DERWENT;	
		potential and (insulat\$4 near6 organic) and	IBM_TDB	
		349/\$6) and nec.as		*
	3	(((liquid near3 crystal near3 display) or lcd) and	USPAT;	2003/07/10 10:06
		(gate near3 line) and (data near3 line) and (pixel	US-PGPUB;	2003,07,10 10.00
1		near5 electrode) and switch\$4 and ((control or	EPO; JPO;	
		contact or circuit) near4 electrode) and gap and	DERWENT;	
	j'	potential and (insulat\$4 near6 organic) and	IBM_TDB	
	**	349/\$6) and nec.as.	1011_100	
	52702	(display or pixel or picture) near3 electrode	USPAT;	2003/07/10 10:49
-	32/02	(display of pixel of picture) fields electrode	US-PGPUB;	2003/07/10/10:49
	* *		EPO; JPO;	
			DERWENT;	
			IBM_TDB	,
	3366057	opening or aperture or gap	USPAT;	2003/07/10 10:49
-	3300037.	opening of aperture of gap	US-PGPUB;	2003/07/10 10.49
			EPO; JPO;	
•			DERWENT;	
				,
1_	287622	(gate or scan\$4) near3 (line or electrode or wire)	IBM_TDB USPAT;	2003/07/10 10:51
	20/022	(gate of scans4) flears (fille of electrode of whe)	US-PGPUB;	2003/07/10 10.31
	•		EPO; JPO;	
	1 1		DERWENT;	
			IBM_TDB	
*	9304	((display or pixel or picture) near3 electrode) and	USPAT;	2003/07/10 10:52
	7504	(opening or aperture or gap) and ((gate or scan\$4)	US-PGPUB;	2003/07/10 10.32
		near3 (line or electrode or wire))	EPO; JPO;	•
· .		Ticars (inte or electrode of wire))	DERWENT;	*
			IBM_TDB	
	3725	(((display or pixel or picture) near3 electrode) and	USPAT;	2003/07/10 10:53
	0,20	(opening or aperture or gap) and ((gate or scan\$4)	US-PGPUB;	2005/07/10 10:55
		near3 (line or electrode or wire))) and 349/\$6	EPO; JPO;	
		Thears (line of electrode of whey)) and 545/\$0	DERWENT;	, ,
			IBM_TDB	
-	2975	((((display or pixel or picture) near3 electrode) and	USPAT;	2003/07/10 10:54
		(opening or aperture or gap) and ((gate or scan\$4)	US-PGPUB;	
		near3 (line or electrode or wire))) and 349/\$6) and	EPO; JPO;	
		((control or connect\$4) near3 electrode)	DERWENT;	· <u>_</u> _
~		(control of the cont	IBM_TDB	
· - ·	595	(((((display or pixel or picture) near3 electrode)	USPAT;	2003/07/10 10:56
	,	and (opening or aperture or gap) and ((gate or	US-PGPUB;	20,00,07,10 10.00
•		scan\$4) near3 (line or electrode or wire))) and	EPO; JPO;	* ÷
		349/\$6) and ((control or connect\$4) near3	DERWENT;	*
	-	electrode)) and ((liquid near3 crystal near3	IBM_TDB	
		display) or lcd) and (switch\$4 or tft) and (insulat\$4	10.1_100	
		near6 organic)	•	
-	218	((((((display or pixel or picture) near3 electrode)	USPAT;	2003/07/10 10:58
		and (opening or aperture or gap) and ((gate or	US-PGPUB;	2,00,07,10,10,00
		scan\$4) near3 (line or electrode or wire))) and	EPO; JPO;	
,		349/\$6) and ((control or connect\$4) near3	DERWENT;	· · ·
		electrode)) and ((liquid near3 crystal near3	IBM_TDB	
		display) or lcd) and (switch\$4 or tft) and (insulat\$4	-51155	
		near6 organic)) and ((reflect\$4 near3 type) or	•	
	1 .	reflection-type)		
				

<u>.</u> .	43	((((((display or pixel or picture) near3 electrode)	USPAT;	2003/07/10 12:09
	**	and (opening or aperture or gap) and ((gate or	US-PGPUB;	
		scan\$4) near3 (line or electrode or wire))) and	EPO; JPO;	
•	c c	349/\$6) and ((control or connect\$4) near3	DERWENT;	
		electrode)) and ((liquid near3 crystal near3	IBM_TDB	
•		display) or lcd) and (switch\$4 or tft) and (insulat\$4	10.1_100	•
				χ.
		near6 organic)) and ((potential or ((electric near3		
•		field) or e-field)) near4 (leak\$4 or loss or	*	
1 1 1 1	,	dissipat\$4))		:
-	23	("4980002" "5003356" "5055899" "5182620"	USPAT	2003/07/10 11:01
		"5246782" "5287208" "5302987" "5364547"		•
		"5409777" "5414278" "5414547" "5419991"	. *.	
		"5422293" "5426523" "5446562" "5453857"		
	,	"5457553" "5459596" "5463230" "5463484"	·	
		"5483366" "5528209" "5682211").PN.		. ,
	602	349/141	USPAT;	2003/07/10 12:10
		,	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
• • •			IBM_TDB	
	11000	240/120		2002/07/10 12:10
-	1963	349/139	USPAT;	2003/07/10 12:10
			US-PGPUB;	
		*	EPO; JPO;	
			DERWENT;	
			IBM∠TDB	
	1174	349/43	USPAT;	2003/07/10 12:10
			US-PGPUB;	
	,		EPO; JPO;	
			DERWENT;	
	• • • • • • • • • • • • • • • • • • • •		IBM_TDB	·
- *	1219	349/138	USPAT;	2003/07/10 12:10
,			US-PGPUB;	
•	. ,		EPO; JPO;	
			DERWENT;	
*			IBM_TDB	
_	424	349/129	USPAT;	2003/07/10 12:10
	1.	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	US-PGPUB;	2005/07/10 12:10
			EPO; JPO;	
			DERWENT;	
• • •	1		IBM_TDB	
_	7	349/\$ and ((control adj electrode) near5 (cover\$3		2004/04/15 12:27
•	1		USPAT;	2004/04/15 12:37
*		or over\$7 or above) near5 (gate or scan\$4))	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	*
٠.			IBM_TDB	
· - .	60	349/\$ and ((control adj electrode) same (cover\$3	USPAT;	2004/04/15 12:40
		or over\$7 or above or top or bottom or under\$4)	US-PGPUB;	
		same (gate or scan\$4))	EPO; JPO;	
			DERWENT;	· , .
	*		IBM_TDB	
_	35	349/\$ and ((control adj electrode) same (cover\$3	USPAT;	2004/04/15 12:42
		or over\$7 or above or top or bottom or under\$4)	US-PGPUB;	
•		same ((gate or scan\$4 or signal\$4) near3 line))	EPO; JPO;	,
	l .	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	DERWENT;	
			IBM_TDB	
-	108386	349/	USPAT;	2004/04/15 12:57
• .	100300			2004/04/15 12:5/
			US-PGPUB;	
e .		*	EPO; JPO;	
	1		DERWENT;	
	<u> 1</u>	<u> </u>	IBM_TDB	

<u> </u>			•	•	•	·	•
- /	1392	349/143			.•	USPAT;	2004/04/15 12:57
			•			US-PGPUB;	
ļ. ·						EPO; JPO;	•
l.:			**	•		DERWENT;	
			*			IBM_TDB	
-	785	349/141				USPAT;	2004/04/15 12:57
*	, , , , , ,	- 1,0,0				US-PGPUB;	
· = .					- 10	EPO; JPO;	
			•			DERWENT;	
						IBM_TDB	
-	2150	349/139				USPAT;	2004/04/15 12:57
					. :	US-PGPUB;	
		•				EPO; JPO;	
	(DERWENT;	
		*			4.	IBM_TDB	
-	1480	349/43			. ,	USPAT;	2004/04/15 12:57
	'د					US-PGPUB;	
						EPO; JPO;	* -
* **		• • •	•		*	DERWENT;	
	*.	. "		· · · · · · · · · · · · · · · · · · ·		IBM_TDB	
	1315	349/138			• •	USPAT;	2004/04/15 12:57
*	•			•		US-PGPUB;	
	1	90			•	EPO; JPO;	
	÷ •,					DERWENT;	
			· · ·			IBM_TDB	